This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

Claim 1 (currently amended): A medical implant for the controllable delivery of

at least one pharmaceutical compound to a localized area within a patient, said implant

comprising:

an implantable medical device having a surface and a coating formed on at least a

portion of said surface, said coating having at least two polymer layers, two of said at least two

polymer layers incorporating at least one releasable pharmaceutical compound, each of said two

polymer layers incorporating at least one releasable pharmaceutical compound and having at

least one physical property affecting the releasability of said releasable pharmaceutical

compound that differs from said other layer, wherein said at least one physical property of said

<u>polymer layer</u> affecting the releasability of said at least one pharmaceutical compound is

molecular weight and wherein said at least one releasable pharmaceutical compound is a

macrolide antibiotic.

Claim 2 (original): The medical implant of claim 1 wherein said medical device

is selected from the group consisting of stents, probes, catheters, micro-particles, pacing leads,

vascular grafts, access devices, in-dwelling access ports, valves, plates, barriers, supports, shunts,

discs, and joints.

Claim 3 (original): The medical implant of claim 2 wherein said stent is selected

from the group consisting of vascular stents, biliary stents, and esophogeal stents.

Claims 4-5 (canceled).

Claim 6 (previously presented): The medical implant of claim 1 wherein said

molecular weight range from about 1 kDa to 100,000 kDa.

Claim 7 (previously presented): The medical implant of claim 1 wherein said

polymer layers comprise a polymer selected from the group consisting of poly(caprolactone),

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poly(lactic acid), poly(glycolic acid), poly(ethylene-vinyl acetate), collagen, heparinized collagen, polyvinyl pyrrolidone, polytetrafluoroethylene, polyethylene glycol, polystyrene, acrylates, polyesters, epoxides, silicones, cellulose, and copolymers thereof.

Claims 8-9 (canceled).

Claim 10 (previously presented): The medical implant of claim 1 wherein the macrolide antibiotic is rapamycin or analogues and derivatives thereof.

Claim 11 (canceled)

Claim 12 (currently amended): A method for making a controllable drug releasing gradient coating for the surface of an implantable medical device, said method comprising the steps of:

forming a first polymer layer on said surface of said <u>implantable</u> medical device, said first polymer layer containing at least one releasably bound pharmaceutical compound and having at least one physical property affecting the releasability of said at least one pharmaceutical compound; and

forming at least one additional polymer layer on said first polymer layer, said at least one additional layer containing at least one releasably bound pharmaceutical compound, said additional polymer layer differing in said at least one physical property affecting the releasability of said at least one pharmaceutical compound from said first polymer layer, wherein said at least one physical property of said polymer layers affecting the releasability of said at least one pharmaceutical compound is molecular weight and wherein the at least one releasably bound pharmaceutical compound is a macrolide antibiotic.

Claim 13 (original): The method of claim 12 wherein said generally tubular structure is a stent or a catheter.

Claim 14 (original): The method of claim 13 wherein said stent is self-expanding.

Claim 15 (original): The method of claim 13 wherein said stent is mechanically expandable.

Claim 16 (original): The method of claim 13 wherein said stent is bioresorbable.

Claim 17 (canceled).

Claim 18 (previously presented): The method of claim 12 wherein said molecular weights range from about 1 kDa to 100,000 kDa.

Claim 19 (original): The method of claim 12 wherein said polymer layers are selected from the group consisting of poly(caprolactone), poly(lactic acid), poly(glycolic acid), poly(ethylene-vinyl acetate), collagen, heparinized collagen, polyvinyl pyrrolidone, polytetrafluoroethylene, polyethylene glycol, polystyrene, acrylates, polyesters, epoxides, silicones, cellulose, and copolymers thereof.

Claim 20 (previously presented): The method of claim 12 wherein said at least one releasably bound pharmaceutical compound is contained within adjacent polymer coatings.

Claim 21 (canceled)

Claim 22 (previously presented): The method of claim 20 wherein the macrolide antibiotic is rapamycin or analogues and derivatives thereof.

Claim 23 (previously presented): The method of claim 12 wherein said at least one releasably bound pharmaceutical compound is coupled to said polymer coating.

Claim 24 (canceled)

Claim 25 (previously presented): The method of claim 23 wherein the macrolide antibiotic is rapamycin or analogues and derivatives thereof.

Claim 26 (new): A medical implant for the controllable delivery of at least one pharmaceutical compound to a localized area within a patient, said implant comprising:

an implantable medical device having a surface and a gradient layering of two or more differing molecular weight polymers coated on at least a portion of said surface; wherein said gradient layering of differing molecular weight polymers includes one or more releasable pharmaceutical compounds, and optionally includes one or more blank polymer layers;

and further wherein the differing molecular weight polymers are selected to controllably affect the releasability of said at least one pharmaceutical compound.

Claim 27 (new): The medical implant of claim 26 wherein the gradient layering comprises a highest molecular weight polymer layer closest to the surface and the lowest molecular weight polymer layer farthest from the surface.

Claim 28 (new): The medical implant of claim 26 wherein the gradient layering comprises a non-linear gradient of layers of differing molecular weight polymers.

Claim 29 (new): A method of controlling the release of a drug from an implantable medical device, said method comprising:

forming a gradient layering of two or more differing molecular weight polymers on a surface of said implantable medical device, said gradient layering containing at least one releasably bound pharmaceutical compound, and optionally includes one or more blank polymer layers; wherein the differing molecular weight polymers are selected to controllably affect the releasability of said at least one pharmaceutical compound; and

placing the medical device in contact with a patient's body, wherein said degradation of the differing molecular weight polymer layers affects the releasability of said at least one pharmaceutical compound.

Claim 30 (new): The method of claim 29 wherein the gradient layering comprises the highest molecular weight polymer layer closest to the surface and the lowest molecular weight polymer layer farthest from the surface.

Claim 31 (new): The method of claim 29 wherein the gradient layering comprises a non-linear gradient of layers of differing molecular weight polymers.